

# BOREHOLE LOG

<b>Project Name:</b> VANDENBERG AFB IRP: OU 2, Site 20, Landfill 1/Drum Disposal Site 1		
<b>Project Number:</b> 01K78601	<b>Borehole No.:</b> 20-MW-23	<b>Sheet</b> 1 of 2
<b>Borehole Location:</b> 2099441.99 N, 5803071.48 E		<b>Elevation and Datum:</b> 429.54 feet MSL
<b>Drilling Contractor:</b> Tri-County Drilling, Inc.	<b>Date Started:</b> 05/06/98	<b>Date Ended:</b> 05/07/98
<b>Drilling Equipment:</b> CME-550	<b>Total Depth:</b> 66.5 feet	<b>Groundwater Depth:</b> 64 feet
<b>Drilling Method:</b> Hollow Stem Auger	<b>Sampling Method:</b> Split Spoon	<b>Borehole Diameter:</b> 11 inches
<b>Driller:</b> M. Ferguson	<b>Borehole Abandonment:</b> Completed as 4" monitoring well	
<b>Hammer Information:</b> Automatic Hammer: 140-lb and 30-inch drop	<b>Logged By:</b> D. Peeler	<b>Checked By:</b> M. Anderson

Depth (feet)	Lithologic Description	Symbol	USCS	Sample	Sample Number	Blow Counts	Field OVA (ppm)	Remarks
	SANDY SILT, dark olive brown (2.5Y 3/3), dry, loose.		ML				0	
	CLAYEY SAND, pale yellow (2.5Y 7/3), slightly moist, loose, fine to medium grained.		SC					
5	Same as above, wet.		SC					Perched water 4 to 6 feet.
	GRAVELLY CLAY, pale yellow (2.5Y 7/3), moist, loose, high plasticity, with loose, well rounded chert and flattened shale gravel (40%) and sand (<10%).		CL				0	
10	Same as above, light olive brown (2.5Y 5/3).		CL					
	Same as above, slightly moist.		CL				0	Hard drilling/tight
15			CL					
20	Same as above, stiff, firm, medium plasticity with loose, subangular to rounded chert and shale gravel up to 1/2".		CL				0	
25	SANDY CLAY, light olive brown (2.5Y 5/6), slightly moist, stiff, firm, medium plasticity, with little gravel.		CL					
	GRAVELLY CLAY, light olive brown (2.5Y 5/3), slightly moist, stiff, firm, medium plasticity, with loose, subangular to rounded gravel (40%) and sand (<10%).		CL				0	
30	SILTY CLAY, dark brown (10YR 3/3), slightly		CL					


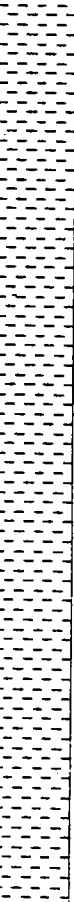
# BOREHOLE LOG

Project Name: VANDENBERG AFB IRP: OU 2, Site 20, Landfill 1/Drum Disposal Site 1

Project Number: 01K78601

Borehole No.: 20-MW-23

Sheet 2 of 2

Depth (feet)	Lithologic Description	Symbol	USCS	Sample	Sample Number	Blow Counts	Field OVA (ppm)	Remarks
35	moist, stiff, firm, with little sand and fine gravel.		CL				0	
40	Same as above, dry.		CL				0	
45	ROCK, very dark grayish brown (10YR 3/2), fractured, dry, hard, laminated, with angular shale gravel (<5%).		RX				0	Gradations: contact with fractured, but unweathered, bedrock.
50	Same as above, slightly moist.		RX				0	
55	Same as above, very dark gray (10YR 3/1), with trace sand and gravel.		RX				0	
60	Same as above, very hard.		RX				0	Very hard drilling.
65	Same as above, wet.		RX				0	
70	End of boring at 66.5 feet below ground surface. Groundwater encountered at 64 feet. Boring completed as 4" monitoring well.							